

L 34938-66

ACC NR: AP6026600

temperature of the waste gases will increase up to 350-400°C.
Optimum conditions in air preheater operation are described.
The possibilities of using waste gases for the preheating of the
combustion air are evaluated. Orig. art. has: 9 tables. [JPRS: 34,519]

SUB CODE: 13, 20 / SUBM DATE: none / ORIG REF: 001 / SOV REF: 004
OTH REF: 004

Card 2/2 *pfy*

L 34938-66 EWF(?)/ETI IJP(c) JD

ACC NR: AP6026600

SOURCE CODE: CZ/0057/65/000/012/0523/0527

AUTHOR: Hadamek, Vladimir

ORG: Metallurgical Projects, Ostrava (Hutni Projekt)

TITLE: Heat losses in heating of air for blast furnacos

SOURCE: Hutnik, no. 12, 1965, 523-527

TOPIC TAGS: blast furnaco, heating, heat loss, heat of combustion, heat insulation, air heater

ABSTRACT: The air temperature influences the combustion temperature on the grate, and the consumption of the coke. The causes of heat losses from the air between the air heaters and the air inlet into the furnace are analyzed. Locations of possible leaks of hot air to the atmosphere are described. Location of spots where heat is lost by radiation and conduction from the air ducts is discussed. Suitable areas, where heat economy can be achieved by insulation, are given. The overall heat losses from the duct are about 12%; substantial improvement in elimination of these losses is not possible. The losses in waste gases amount to about 20% of heat input; important reduction of the losses is not probable. When air temperatures are increased,

Card 1/2

07/6 2275

HADABAS, B.

SCIENCE

PUBLICATIONS: ACTA ZOOLOGICA. Vol. 4, No. 7/8 July/Aug. 1950
MAGYAR KEMIAI FELNOSLAT. Vol. 11, No. 7/8 Sept./Oct. 1950

Hadabas, B. Data on the chromatography of Datura. p. 210

Monthly list of East European accession (EEAT) LC, vol. 9, no. 2,
February 1950, "Unclass."

MAJSAI, Jozsef; HADA, Sandor

The first Hungarian methane gas pipeline has been finished.
Term tud kozl 7 no.9:428 S '63.

HADA, Sandor

Application for admission! Ipari energia 4 no.1: 3 of cover
Ja '63.

1. Energiagazdalkodasi Tudomanyos Egyesulet Pecsi Csoportja.



HADA, Sandor

Use of the Mecsek hard coal in generators. Term tud kozl
7 no.9:430 S '63.

HADA, Sandor

Appeal for reporting! Energia es atcm 16 no.1:3 of cover Ja '63.

1. Energiagazdalkodasi Tudomanyos Egyesulet Pecsi Csoportja.

HADA, Sandor; VODL, Emma

Quantitative analysis of carbon monoxide in gas generator
plants. Ipari energia 3 no. 3:51-54 Mr '62.

1. Pecsi Kokszmuvek.

HADA, Sandor

Some fields of application of gas analyzers in the gas industry. Energia es atom 14 no.8/9:365-371 S '61.

1. Pecsi Kokszmuvek.

HADA, Sandor, vegyeszmerhok (Pecs)

The role of natural gas in the gas supply of cities. Term tud kozl
5 no.2:58-61 F '61.

DEAK, Bertalan (Pecs); HADA, Sandor (Pecs); RAPP, Tamas (Budapest);
SZUCS, Miklos (Budapest)

Possibility of using the residual of the intermediate-pressure hydro-geneation (Varga process) in coal distillation. Magy kem lap 15 no.12: 525-529 D '60.

1. Pecsi Kokszmuvek(for Deak and Hada) 2. Orszagos Energiagazdalkodasi Hatosag(for Rapp). 3. Fovarosi Gazmuvek(for Szucs).

HADA, Sandor

Gasification of coal with low coking capacity and high ash content
from the Pecs coal basin in gas generators. Pecsi musz szeml 5 no.3:
1~9 Jl-S '60.

HADA, S.

Distribution of heavy hydrocarbons in city gas. v.110

KIADÓ: MÁS ÁTVITLICHÍMIA. (Energiaipariadókészületi Tudományos Központ) Budapest, Hungary
Vol. 11, no.11/12, Nov./Dec. 1972

Monthly List of East European Accessions (EAA) Ic., Vol. 7, no. 7, July 1976
Incl.

HUNGARY/Chemical Technology .. Chemical Products and Their Application. Chemical Processing of Solid Fossil Fuels.

Abs Jour : Ref Zhur - Khimiya, No 10, 1959, 36334

Author : Hada, S.

Inst :

Title : The Production of Generator Gas in Hungary.

Orig Pub : Energia es Atomtechn., 1958, 11, No 3, 154-160.

Abstract : From the obtained coal in Hungary, about 10% go into gas-generating installations; the production of the latter covers 34% of the total gas production. Pointing out the great significance of gas generators in the Hungarian power economy, the author analyzes the shortcomings inherent in their exploitation: the low grade and lack of coordination of the incoming coals, the large percentage of pulverized coal, etc. Various improvements of domestic gas generators, the utilization of automatic devices and

Card 1/2

H-113

HADA, S.

Never date on the distillation of a coal-oil mixture.

p. 210 (Magyar Kémikusok Lapja. Vol. 12, no. 7/8 July/Aug. 1917, Budapest, Hungary)

Monthly Index of East European Accessions (EEA) E. Vol. 7, no. 2,
February 1 48

HADA, S.

Production of municipal gas from methane gas.

p. 1 (Sovietje is Atomtechnika) Vol. 10, no. 1, Apr. 1957, Budapest, Hungary

SG: MONTHLY INDEX OF EAST EUROPEAN ACCOMPLISHMENTS (EAI) 1C, VOL. 7, NO. 1, JAN. 1970

HADA, SÁNDOR

HUNGARY / Chemical Technology; Chemical Products and Their
application - Treatment of solid mineral fuels

J-8

Abs Jour : Reforat Zhur - Khimiya, No 2, 1958, 5844

Author : Hada Sandor

Inst : Not given

Title : Gasification of Low Clinkering Capacity Coal

Orig Pub : Magyar energiagazd., 1956, 9, No 8, 306-310

Abstract : A brief review of the types of gas generators used in
gasification of low-grade varieties of coal. Bibliography
6 references.

Card 1/1

HACZEWSKI, W.

POLON

Metallurgical investigation of structural materials
in aircraft components. By J. Gajewski, J. Wójcik,
Wojciech and J. Ogiński. Przegląd Metalurgiczny 1962
Volume 17, No. 5-6, 1962, p. 173-183, 1 plate.
Determines causes of premature deterioration of formed rolls
cracking of aircraft skins, tool wear, and deep drawing
failures of low C steel sheet products. Micrographs, photo-
graphs, diagrams, graphs.

HACURA, V., inz.

Pressing of bearing balls from plastic materials. Automatized
12 no. 5:218 8 Ag '62.

APPROVED FOR RELEASE: 06/23/11: CIA-RDP86-00513R000617800044-6

HAGINSA, Stefan

Largest Czechoslovak area of political power
7 no. 4118-121 - AS US.

HACKI, K.

Production of smoked glass and glass for welding, p. 262, SKLAR A
KERAMIK (Ministerstvo lehkého průmyslu) Praha, Vol. 4, No. 10, Oct.
1954

SOURCE: East European Accessions List (EEAL) Library of Congress,
Vol. 4, No. 12, December 1955

L 04879-67

ACC NR: AP6025067

is used together with the concept of "nondangerous" points at the asymptotic stability boundary to construct a mathematical model of neutral stability. Two cases of systems with variable coefficients are examined which can be reduced to the linear model with constant coefficients. The first case is a relative, weak variation of the coefficients of linear approximation, and the second, a sufficiently slow variation of these coefficients. Finally, the case is examined in which the parameters do not satisfy the necessary conditions for the reduction of a system to a linear system with constant coefficients. Characteristic for this case is the straight horizontal flight at variable speed. Using Lyapunov's direct method, stability criteria are derived in the form of a necessary condition for asymptotic stability. The criteria indicate that stability loss does not depend on velocity or acceleration, but is rather associated with a feature of the motion. Orig. art. has: 2 figures, 1 table, and 22 formulas.

SUB CODE: 12,20/ SUBM DATE: 15Nov65/ ORIG REF: 002/ OTH REF: 010/ SOV REF: 003

ms
Card 2/2

L 04879-67 EWP(m) WVII
ACC NR: AP6025067

SOURCE CODE: RU/0019/66/011/002/0363/0381

37
B

AUTHOR: Hacker, T.

ORG: Institute of Fluid Mechanics, Academy of the Socialist Republic of Rumania, Bucharest
(Institut de Mecanique de Fluid de l'Academie de la Republique Socialiste de Roumanie)

TITLE: Some nonclassical problems of flight stability [Paper presented at the Conference on
Mechanics held in Bucharest in September 1965]

SOURCE: Revue Roumaine des sciences techniques. Serie de mecanique appliquee, v. 11, no.
2, 1966, 363-381

TOPIC TAGS: motion stability, aerodynamic stability, mathematic model, stability equation,
linear approximation

ABSTRACT: Several flight stability problems are discussed for which the mathematical model
based on linear equations with constant coefficients does not hold. The quasicritical case of
systems with constant parameters (autonomous systems) situated at the interface between the
domains of asymptotic stability and instability (where linear approximation no longer describes
the actual process) is discussed. In particular, the practical significance of the concept of
neutral stability is examined, and the mathematical concept of practical stability (" ϵ_0 -stability")

L 35874-66

ACC NR: AF6022639

of the following parameters as control variables: longitudinal control moment, the magnitude and the direction of the thrust, the incidence, and the slope of the velocity vector with respect to the horizon. Optimal trajectories of the c.g. which are formed by three types of curves corresponding to vertical ascent, level flight, and flight with variable flightpath angle are presented in graphs. Some aspects of the construction of the mathematical algorithm are discussed. Orig. art. has: 3 figures, 32 formulas and 6 tables. [AB]

SUB CODE: 01/ SUBM DATE: 17Jan66/ ORIG REF: 001/ ATD PRESS: 5036

Card 2/2 16

L 35874-66 T=2/EWP(h)

ACC NR: AP6022639

SOURCE CODE: RU/0019/66/011/003/0659/0682

AUTHOR: Hacker, T.

ORG: Institute of Fluid Mechanics, Academy of the Socialist Republic of Rumania (Institut de Mecanique des fluides de l'Academie de la Republique Socialiste de Roumanie)

TITLE: Optimal control of a VTOL aircraft

SOURCE: Revue Roumaine des sciences techniques. Serie de mecanique appliquee, v. 11, no. 3, 1966, 659-682

TOPIC TAGS: vtol aircraft, optimal control, time optimal control, optimum trajectory, thrust control

ABSTRACT: The problem of determining the laws of optimal control of VTOL aircraft for ascent to a given altitude and acceleration to a given horizontal velocity in minimum time or with minimum fuel consumption is considered. A theoretical definition of the control variables according to the parameters which determine the flight regime is presented on the basis of the author's previous work. Adequate classification of the variables is presented and their use in the construction of a mathematical model based on the Pontryagin theory of the maximum is described. General equations are derived for the case of a fixed thrust axis, then the laws of ascent and acceleration with minimum fuel consumption and in minimum time are established using one or many

APPROVED FOR RELEASE: 06/23/11: CIA-RDP86-00513R000617800044-6

HAKKA, T.

Recent progress in the dynamics of flight. Proc. Third Int'l. Congr. on Appl. Phys. 1954, Vol. 1, p. 1205. 1955.

L. "Marian Vasil" Institute of Applied Mechanics of the Romanian Academy, Bucharest. Submitted December 2, 1954.

ACCESSION NR: AP4042092

R/0008/64/015/002/0433/0440

AUTHOR: Hacker, T.

TITLE: Optimum takeoff command of VTOL planes with mobile traction axis

SOURCE: Studii si cercetari de mecanica aplicata, v. 15, no. 2, 1964, 433-440

TOPIC TAGS: ascent time, variational calculus, space trajectory, horizontal speed, longitudinal altitude

ABSTRACT: The author seeks to determine the variation in the amount and direction of traction which would assure 1) the minimum ascent time to a given height and to attain given horizontal speeds, or 2) the attainment of a given height and horizontal speed with minimum fuel consumption. The problem is considered simplified in relation to unchanged longitudinal altitude. Orig. art. has: 16 equations and 1 table.

ASSOCIATION: none

SUBMITTED: 22Dec63

ENCL: 00

SUB CODE: SV, MA

NO REF SOV: 001

OTHER: 000

1/1
Card

HACKER, T.

"Molding the contour of aircraft controls" by I. V. Ostoslavaskiy
and I. V. Strazheva. Reviewed by T. Hacker. Studii cerc nec apl
13 no.1:251-253 '62.

HACKER,T.

"Aircraft as an object of control" by V. S. Vedrov, G. L. Romanov,
and V. A. Surin. Reviewed by T. Hacker. Studii cerc nec apl 13
no.1:249-251 '62.

HACKER, T.

Evaluating the admissible lag in the automatic stabilization of flight. Comunicarile AR 12 no.8:909-913 Ag '62.

1. Comunicare prezentata de academician E. Carafoli.

Longitudinal stability of an ...

R/008/62/015/003/002/006
D272/D308

analyze the influence of the problem data - including the lag of
the automatic device - upon the flight stability.

SUBMITTED: February 27, 1962

Card 2/2

✓B

R/008/62/015/003/002/006
D272/D308

13,200

AUTHOR: Hacker, T.

TITLE: Longitudinal stability of an aircraft with automatic pilot

PERIODICAL: Studii și cercetări de mecanică aplicată, no. 3,
1962, 575 - 595

TEXT: The problem of longitudinal stability of automatically piloted aircraft is examined by establishment of a mathematical model for the parameters taking the lag into account. An ideal automatic pilot is defined by putting the lag equal to zero and it is assumed that the dynamic system aircraft-ideal automatic pilot is stable; the author then estimates the magnitude of the lag for which the stability is conserved. A direct graphic procedure for treatment of the stability problem of an aircraft with real automatic pilot is also developed, which does not require preliminary consideration of the stability with an ideal automatic pilot. It is based on a method described in a previous paper by the author and enables one to

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On the flight qualitics ...

3/00/52/300/031/303/007
5272/5504

characteristics of controllability. The degree of instability (the velocity with which the deviation amplitude increases) and the oscillation frequency of the disturbance are evaluated. It is shown that the stability in the cruising regime is mainly affected by the gyroscopic moments of the rotating organs of the engine. In this case the possibility is indicated for reducing the problem to the case of a conventional aircraft. A numerical example is given. There are 4 references: 2 Soviet-bloc and 2 non-Soviet-bloc references to the English-language publications read as follows:

M. J. Duncan, Principles of Control and Stability of Aircraft, Cambridge University Press, (1952); T. Hucker, Journal of the Aerospace Sciences, 28, no. 1, Jan. 1961.

SUBMITTED: October 26, 1961

Card 2/2

X

10.1240

34913
3/00 1/62/000/001/003/007
D272/D604

AUTHOR:

Hacker, T.

TITLE: On the flight qualities of partially controlled VTOL aircraft (without an automatic pilot)

PERIODICAL: Mecanica aplicata, no. 1, 1962, 31-40

TEXT: The flight qualities of vertical take-off and landing aircraft are examined, after first discussing the need to take into account the gyroscopic effect of the rotating organs of the engines and to study the perturbed movement for certain specific regimes (base motions), characterized by small or zero flight velocities. The latter requires investigation of the perturbed motion of the dynamic system - aircraft-pilot (human or automatic). It is shown that in the case of hover flight, the dominant forces are the traction by the engines and the forces and mass moments of inertia. Disturbed motion about the aircraft center of gravity is studied, assuming that the motion parameters of the center of gravity itself are constrained. This is useful for determining the

Card 1/2 X

On the applicability limits of a stability matrix, ...^{26.191}

R/3/8/60/000/006/008
A231/A126

X

(No. 1 Definition) in function of the 8 positive values requires a special interest in case of applications. The author demonstrates an evaluation process of this quantity. There are 2 Soviet-blitz references.

SUBMITTED: May 12, 1960

Card 3/3

5/18/69/005/005/008
A-1/A-25

On the applicability criteria of a stability theory. X

X and \mathbf{g} are vectors of the same dimension, x and \mathbf{g} - respective, having as components some functions, being generally nonlinear, of the components of x and of the λ -components of \mathbf{g} , as well as of the independent variables. It is supposed that the stabilizing transformation steps are such as a consequence of the control parameters are eliminated ($\mathbf{g} = 0$), and they are now in class that at least one of these deviations receives a value other than 0, i.e., if the system $\frac{dx}{dt} = X(t, x, \mathbf{g})$, and $\frac{d\mathbf{g}}{dt} = \mathbf{G}(t, x, \mathbf{g})$, satisfies the equation system of the free disturbed motion, then $X(t, x, 0) = X_0(t, x)$, $\mathbf{G}(t, x, 0) = \mathbf{G}_0(t, x)$. N. 1 Definition. The simple solution of the auxiliary system $\frac{dx}{dt} = X(t, x, \mathbf{g}(t))$ is stable in relation to $\mathbf{g}(t)$ in case there is $\delta > 0$ two functions $\delta(\epsilon)$ and $\eta(\epsilon)$ in such a way that $|x(t)| \leq \delta(\epsilon)$, $|x(t)| \leq \eta(\epsilon)$, when $|x(0)| \leq \eta(\epsilon)$, $|\mathbf{g}(0)| \leq \delta(\epsilon)$ for all $t \geq 0$, $x(0)$, x_0 being the solution of the $\frac{dx}{dt} = X(t, x, \mathbf{g}(t))$ system corresponding to the initial conditions $x(0) = x_0$, $\mathbf{g}(0) = 0$. N. 2 Definition. The simple solution of the auxiliary system is asymptotically stable in relation to $\mathbf{g}(t)$, for which $\lim_{t \rightarrow \infty} x(t, x_0, \mathbf{g}(t)) = 0$ if the conditions of the N. 1 Definition are satisfied and the relation $\lim_{t \rightarrow \infty} x(t, x_0, \mathbf{g}(t))$ takes place. Theorem. If the simple solution of the auxiliary system is uniformly asymptotically stable, it is asymptotically stable in relation to $\mathbf{g}(t)$. The evolution of the δ quantity

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104000

REF ID:

2010/09/10 00:00:00

A-3, A-5

AUTHOR: Parker, T.

TITLE: On the application of a stability theory to the partially controlled motion of an aircraft

PERIODICAL: Studii si cercetari de mecanica aplicata no. 9 (1958) - 1985

TEXT: In a previous article (Ref. 10) it was shown that by an effort reduced to grade of 0.000001, the stability of motion of an aircraft (1959), the aircraft has been found to have a system of differential equations in which appear only the fundamental kinematic parameters. This system was called the basic form system. The coefficients of the parameters depend on the initial conditions and the values of the system

$$\frac{dx}{dt} = X \left(\alpha, \beta, \gamma \right) \text{ and } \frac{d^2x}{dt^2} = E \left(\alpha, \beta, \gamma \right), \quad \text{where } \alpha, \beta, \gamma = 0 \text{ and } X = X(x, \dot{x}) = X(\alpha, \beta, \gamma) \text{ representing the kinematical state of the partially controlled aircraft; } x \text{ and } \dot{x} \text{ represent the variables whose time derivatives are denoted as the kinematical elements of which are the deviations of the free and the corresponding parameters}$$

Cart 1/3

HACKER, T.

Stability of an airplane with a reduced number of freedom degrees. p.655

STUDII SI CERCETARI DE MECHANICA APPLICATA. Academia Republicii Populare Române
Bucuresti, Romania
Vol. 10, no.3, 1959

Monthly List of East European Accessions (FEAT) 10., Vol. 2, no.1, Jan. 1960
Uncl.

B6412

RUM/8-59-1-3/24

On the Longitudinal Stability of Aircraft in Case of Repeated Disturbances

In case of vertical squalls acting on the aircraft as repeated disturbance, a good damping is required which can be obtained by large absolute values of the rotation derivates

$$\left(\frac{\partial c_m}{\partial \dot{\alpha}} \text{ and } \frac{\partial c_m}{\partial \ddot{\alpha}} \right).$$

A large value of the coefficient of static stability $\left(\frac{\partial c_m}{\partial \alpha} \right)$, supplies no dynamic stability in a quick phase of the disturbed motion. There are 2 references, 1 of which is Rumanian and 1 Russian.

SUBMITTED: October 15, 1958

Card 6/6

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80412

RUM/8-59-1-3/24

On the Longitudinal Stability of Aircraft in Case of Repeated Disturbances

$$\eta_y = \rho_y = a \dot{v}$$

$$\eta_u = \rho_u = \sigma \dot{v}$$

in which "a" represents the curve shape $c_z = f(\alpha)$ and σ a value proportional to the coefficient of the statical stability

$$(\sigma = \frac{m}{I_B} \frac{\partial c_m}{\partial \alpha}).$$

The coefficients of the square form $W = \alpha_{22}y^2 + 2\alpha_{24}yu + \alpha_{44}u^2$ can be determined from $U = \frac{dw}{dt} = - (y^2 + u^2)$. The author then derives the vertical component from the condition (b):

$$\dot{v} < \left\{ \frac{(y^2 + u^2) \min}{a|\alpha_{22}y + \alpha_{24}u| \max + \sigma|\alpha_{24}y + \alpha_{44}u| \max} \right\}_{W=c^2} \quad (6)$$

and establishes a practical calculation formula as follows: Starting with the minimum of the $y^2 + u^2$ sum, he derives the approximate formula for the determination of the admissible limit of the vertical squalls speed:

$$2W(\epsilon_y, \epsilon_u)$$

$$v_{v \lim} = [\sqrt{(\alpha_{22} - \alpha_{44})^2 + 4\alpha_{24}^2 + \alpha_{22}^2 + \alpha_{44}^2}][a\alpha_{22} + \sigma|\alpha_{24}|]\epsilon_y + (a|\alpha_{24}| + \sigma\alpha_{44})\epsilon_u \quad (7)$$

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4

BGH2.

RUM/8-59-1-3/24

On the Longitudinal Stability of Aircraft in Case of Repeated Disturbances

follows: x_0, y_0, u_0 , in (a) are replaced by $\gamma_x, \gamma_y, \gamma_u$ and z_0 can have an arbitrary value. In (b) the minimum module value of the function U on the ellipsoid $W = c^2$ is taken, and the constants ρ_x, ρ_y, ρ_u are substituted by the expressions (4). Changing now the inequality signs in (a) and (b) into equality signs, the required admissible limits for ϑ_v and ϑ_h are obtained. In case of simplified vertical squalls ($\vartheta_h = 0$) and a constant speed, the problem can be treated by the simplified theory of the quick disturbance motion and the equation system can be reduced to an equation of the second orders:

$$\begin{aligned} \frac{dy}{dt} &= a_{22}y + u + R_y(t, y, z, u) \\ \frac{du}{dt} &= a_{42}y + a_{44}u + R_u(t, y, z, u) \end{aligned} \quad (5)$$

The characteristic equation of this system, without the addings R_y and R_u , admits in case of statically stable aircraft a pair of complex conjugated roots. The real part of the roots, denoted with μ ($\mu = 1/2 (a_{22} + a_{44})$), is negative. The constants $\gamma_y, \gamma_u, \rho_y, \rho_u$ depend only from ϑ_v , having the following shape:

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RUM/8-59-1-3/24

On the Longitudinal Stability of Aircraft in Case of Repeated Disturbances

which supply the required relations. Air squalls are considered as repeated disturbances. In this case the constants γ_x , γ_y , γ_u and ρ_x , ρ_y , ρ_u are evaluated by the functions of the speed of air currents. The horizontal and vertical components of the air current speed in case of a nondisturbed flight are denoted with v_h and v_v . Supposing that the nondimensional values v_h and v_v are small enough to be neglected in a series development of the nonlinear power terms, then are $v_v \approx \Delta \alpha_{\max}$ and $v_h = \Delta v_{\max}$ and the following relations can be established:

$$\gamma_x = \rho_x = | c_x \hat{v}_h + \frac{\partial c_x}{\partial \alpha} \hat{v}_v | \quad (a)$$

$$\gamma_y = \rho_y = | c_z \hat{v}_h + \frac{\partial c_x}{\partial \alpha} \hat{v}_v | \quad (b)$$

$$\gamma_u = \rho_u = | \frac{m}{I_B} \left(c_m \hat{v}_h + \frac{\partial c_m}{\partial \alpha} \hat{v}_v \right) |.$$

In case the components v_h or v_v are not small compared with the non-disturbed flying speed V , the same relations remain valid, however, the respective maximum values will be taken for the aerodynamical coefficients and their partial derivatives. The relations (a) and (b) are used as



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On the Longitudinal Stability of Aircraft in Case of Repeated Disturbances

virtue of the homogeneous linear system is identically equal to the function U . The coefficients of the square form $W(x, y, z, u)$ can be determined from the condition that dW/dt of the homogeneous linear system should be equal with the square form U for all values of the functions x, y, z, u . It is also required that the deviations x, y, z, u should never, after the initial moment t_0 , exceed the constant quantities $\varepsilon_x, \varepsilon_y, \varepsilon_z, \varepsilon_u$, taken from the factors of security, comfort, etc. The deviations of the angle of attack (ε_y) and of the longitudinal angular speed (ε_u) should never exceed a certain limit. The deviations of the flying speed (ε_x) and of the rocking angle (ε_z) can vary within wider limits. The purpose of the aircraft (passenger, military, etc.) has to be considered, too. The author then presents a rational calculation, analogous to that used by I.G. Malkin [Ref 2] for the demonstration of the stability theorem in case of disturbances with continuous action. Starting with the ellipsoid $W(x, y, z, u) = c^2$, the author establishes 2 inequalities:

$$W(x_0, y_0, z_0, u_0) < c^2 \quad (a)$$

$$\left\{ U(x, y, z, u) + \left| \frac{\partial W}{\partial x} \right| \rho_x + \left| \frac{\partial W}{\partial y} \right| \rho_y + \left| \frac{\partial W}{\partial u} \right| \rho_u \right\} W = c^2 < 0 \quad (b)$$

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14000

80412

RUM/8-59-1-3/24

AUTHOR:

Hacker, T.

TITLE:

On the Longitudinal Stability of Aircraft in Case of Repeated Disturbances

PERIODICAL:

Studii si Cercetări de Mecanică Aplicată, 1979, Nr 1, pp 70 - 76 (RUM)

ABSTRACT:

This article deals with the behavior of aircraft in an atmosphere of repeated squalls. The classical theory of aircraft stability considers only the case of isolated disturbances. The practical flight necessities of today require a study of repeated disturbances acting during the disturbed motion. In a previous article [Ref 1] the author already indicated a method for this case. The evaluation obtained was only a general one, the required degree of damping referring to the sum of the deviation modulus. The practical problem consists in establishing how small the initial disturbances and the disturbing forces with a continuous action should be in order to guarantee the required degree of damping. Based on the Liapunov function the author presents a solution of this problem. Since the roots of the characteristic equation of the linear homogeneous system have real negative parts, to every negatively defined square form U correspond a positively defined square form W, and one single part, the derivative of which in ratio with the time taken in

Card 1/6

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HACKER, T.

Behavior of a plane in flight through an agitated atmosphere. p. 983.

Academia Republicii Populare Române. Institutul de Mecanica Aplicata.
STUDII SI CERCETARI DE MECANICA APLICATA. București, Romania. Vol. 8, no. 4,
1957.

Monthly list of East European Accessions (EEAI) DC, Vol. 8, no. 8, Aug. 1959

Uncl.

HACKER, T.

Distr. 4Fl

✓ 4675. Hacker, T., On a problem of partial stability of aircraft
(in Russian), Acad. Repub. Pop. Romane, Rev. Mecan. appl. 2, 2,
1957.

Classical stability criteria, such as the Routh-Hurwitz criterion, do not give indications concerning the separate behavior of kinematic parameters. If one of the parameters grows larger, these criteria indicate instability even in the case when the behavior of this parameter is of no importance to the problem.

With this idea in mind, author presents a procedure to find conditions which should insure the damping of the deviation of the incidence angle, or that of the rate of pitch. Expressions are given which relate the initial value of the disturbance to the time interval within which a certain previously given damping velocity is insured for the discussed kinematic parameters.

Staff, Revue de Mécanique Appliquée
Acad. Repub. Pop. Romane, Rumania

HACKER, T.

A problem of the stability of airplanes for a finite-time interval.

P. 1345 (Academis Republicii Populare Romine, Comunicarile. Vol. 6, no. 12, Dec. 1956
Bucuresti, Rumania)

Monthly index of East European Accessions (EEAI) LC. Vol. 7, no. 2,
February 1958

HACKER, T.

Contributions to the study of longitudinal stability of an airplane in most unfavorable evolutions. p. 268. Academia Republicii Populare Romane. Institutul de Mecanica Aplicata. STUDII SI CERCETARI IN MECANICA APLICATA. Pucurenti. Vol. 6, no. 3/4, July/Dec. 1955.

So. Fast European Accessions List Vol. 5, No. 9 September, 1956

HACKER, T..

Evaluation of the speed of amortization of perturbations in horizontal
rectilinear flight when the basic motion of the airplane is not permanent.
p. 1731. Academia Republicii Populare Romine. COMUNICARILE. Bucuresti.
Vol. 5, no. 12, Dec. 1955.

So. East European Accessions List Vol. 5, No. 9 September, 1956

HACKER, T.

A criterion of longitudinal stability of an airplane in the time of the short period of perturbed motion for nonpermanent, horizontal, and rectilinear motion. p. 1635. Academia Republicii Populare Romane. COMUNICARILE. Bucuresti. Vol. 5, no. 11, Nov. 1955

So. East European Accessions List Vol. 5, No. 9 September, 1956

HACKER, Tiberiu

✓ Contribuții la Studiul Stabilității Longitudinale a Avionului în Evoluție cea mai Deluroasă. Tiberiu Hacker. Stud. Cerc. Mat. Iași, 1967, Vol. 18, No. 1, pp. 200-207. 10 refs. In Romanian. Study of the longitudinal stability of an aircraft under unfavorable conditions. Equations of motion are derived for trajectories of rectilinear motion, and the perturbation amplitude of the angle of incidence and of the angular velocity of pitch is determined.

DE
JUL

HACKER, Peter

GOMORI, Pal; TAKACS, Lajos; KALLAY, Kalman; DUDAS, Gizella; BOHANSZKY, Ferencne;
HACKER, Peter

Effects of isolated cerebral anoxia on pulmonary circulation. Magy.
Tudom. Akad. Biol. Orv. Oszt. Kozl. 8 no.3:269-275 1957.

1. A Budapesti Orvostudomanyi Egyetem III. sz. Belklinikaja.

(CEREBRAL ANOXIA, exper.

eff. of arterial anoxia on pulm. circ. in dogs (Hum))

(BLOOD CIRCULATION

pulm. eff. of exper. cerebral arterial anoxia in dogs (Hum))

RUMANI/Chemical Technology. Chemical Products and their
Applications. Leather. Fur. Gelatin. Tanning
Materials. Industrial Proteins.

H

Abs Jour: Ref Zhur-Khim., No 8, 1959, 29935.

Author : Hovas, G., Minculescu, ..., and Hacker, N.

Inst :

Title : The Dressing of Chrome-Tanned Stock.

Orig pub: II-a Consf Tehn-Stiint a Ind Usoare Piele, Cauciuc,
Sticla (Ducurosti), ASIT, 70-80 (1957) (in Rumanian)

Abstract: The authors have investigated various methods used
for the dressing of chrome-tanned stock in order to
determine optimum conditions for the liming, pickling,
tanning, neutralization, retanning, and finishing
of the stock. The possibility of the utilization of

Card : 1/2

HACKENSELLNER, H.A.; TOPELMANN, I.

The endothelial surface of the carotid artery in rabbits
after double ligation. Acta morph. acad. sci. Hung. 13
no.4:359-375 '65.

I. Pathologisches Institut (Direktor: Prof. Dr. L.H. Kettler),
Humboldt-Universitat Berlin, Rudolf-Virchow-Haus der Charite,
Submitted October 15, 1974.

HACKENSELNER, H. A.

Prosekt. Wilhelminenspit., Wien. *Zur Pathologie der tumorösen neurogenen Hyperplasien (Neurome, Neurofibrome) und hyperplasiogenen malignen neurogenen Geschwülste des Magen-Darmtraktes. The pathology of tumour-like neurogenic hyperplasias (neuromata and neurofibromata) and malignant hyperplastic neurogenic tumours of the alimentary tract ACTA MORPH. ACAD. SCIENT. HUNG. (Budapest) 1953, 3/3 (325-352) Tables 6 Illus. 6

Report on 10 cases of neuromata and 2 cases of fibromata. Discussion of neurogenic tumours in the different parts of the alimentary tract, the predilection for sex and age, the clinical symptoms, the macro- and microscopical appearances. A simple origin of the neuromata is accepted and the changing fine structure of these growths is considered as a form of expression of the tissue relations between growth and the whole of the organ. A differentiation which goes further than the pure description of these tumours is, however, no practical or aetiological and genetic necessity. Author (VIII, 5, 16)

SO: Excerpta Medica; Section VIII Vol. 7 No. 11

I. 45202-66

ACC NR: AP6028780

ethanol was acylated with methacrylic and acrylic chlorides. 2-Nitro-2,2-bis-(nitrate-methyl)ethyl methacrylate was a polymerizable product of reaction with methacrylic chloride. Acrylic chloride gave a product which was not well identified and which underwent rapid and spontaneous polymerization. Polymers showed inflammable properties of high degree. Para-nitrobenzoate and 3,5-dinitrobenzoate of 2-nitro-2,2-bis(nitrate-methyl) ethanol were prepared. Absorption infrared spectra were obtained for 2-nitro-2,2-bis(nitrate-methyl) ethanol as well as for methacrylate and acrylate of 2-nitro-2,2-bis(nitrate-methyl)ethyl. Orig. art. [AM] has: 3 formulas and 3 tables. [Authors' abstract]

SUB CODE: 07/ SUBM DATE: 07Oct66/ ORIG REF: 004/ OTH REF: 001/

hs

Card 2/2

L 4 302-66 EWP(j)/T WW/RM/JW
ACC NR: AP6028780

SOURCE CODE: PO/0014/66/045/006/0321/0324

4B
4B

AUTHOR: (Legocki, J.; Rodowicz, H.) Hackel, Juliusz

ORG: Institute of Organic Industry, Warsaw (Instytut Przemyslu Organicznego
w Warszawie)

TITLE: Nitrate-alkyl esters of α,β -unsaturated acids. I Part 2. Synthesis of
2-nitro-2,2-bis(nitrate-methyl) ethanol

SOURCE: Przemysl chemiczny, v. 45, no. 6, 1966, 321-324

TOPIC TAGS: nitration, nitrate alcohol, methacrylic acid, polymerization,
acrylic chloride, methacrylic chloride

ABSTRACT: A new nitrate-alcohol, 2-nitro-2,2-bis(nitrate-methyl) ethanol was obtained by acid hydrolysis of 2-nitro-2,2-bis(nitrate-methyl)ethyl acetate. 2-Nitro-2,2-bis(nitrate-methyl)ethyl acetate was synthesized by three different methods: acetylation of the product of partial oxidative nitration of tri(hydroxymethyl)nitromethane (acetate III), nitration of 2-phenyl-5-nitro-5-hydroxymethyl-1,3-dioxane acetate (acetate IIIa), as well as nitration of 2,2-dimethyl-5-nitro-5-hydroxymethyl-1,3-dioxane acetate (acetate IIIb). 2-Nitro-2,2-bis(nitrate-methyl)-

KUDOSZEK, Rudolf; KUTKIEWICZ, Wieslaw; LACKI, Juliusz

Peracetic acid; studies on obtaining it. Przem. chem. 42
no.10:551-556 0'63.

1. Politechnika, Warszawa.

HACKEL, J.; KUBOSZEK, R.

On the formation of two varieties of diethylene-glycol dinitrate.
Bul chim PAN 8 no.4:143-145 '60. (EEAI 10:9/10)

1. Department II of Organic Technology, Technical University, Warsaw.
Presented by T. Urbanski.

(Diethylene-glycol-dinitrate)

HACKEL, Juliusz; URBANSKI, Tadeusz; KUTKIEWICZ, Wieslaw; STERNINSKI, Andrzej

Viscosity of mixtures HNO₃-H₂SO₄-H₂O. Chemia stosow 4 no. 3/4:441-451
'60. (EEAI 10:9)

1. Katedra Technologii Chemicznej II Politechniki Warszawskiej.

(Viscosity) (Mixtures) (Nitric acid)
(Sulfuric acid) (Water)

Ireneusz Urbanski

F/002/60/000/004/002/003
A221/A126

dition of same is being prepared.

ASSOCIATION: Politechnika Warszawska, Katedra Technologii Chemicznej Organicznej II
(Department of Organic Chemical Technology II, Polytechnical Inst.,
Warsaw)

P/003/60/004/002/003
A221/A126

Bolesław Urbański

compounds. In 1940 he escaped from occupied Poland to France and later to England, where for 6 years he worked at the Research Department of the Ministry of Supply as a senior- and later as principal research officer. In 1946 Professor Urbański returned to Poland and was appointed professor for Organic Chemical Technology at the Polytechnic in Warsaw. For a short time he was the director of the Instytut Przemysłu Chemicznego (Chemical Industry Institute). In 1948, he commenced research on new medicaments. In 1950, he was elected Correspondent Member of the Polish Academy of Sciences and in 1956 Full Member of this institution. He is also member of several scientific associations in Poland and abroad. In 1957, he was elected committee member of the Miedzynarodowy Unia Chemii Czystej i Stosowanej (Pure and Applied Chemistry, International Union) and in 1960 member of the East German Leopoldina Science Academy in Halle/Saale. He is member of Chemical Society in London, Society of Chemical Industry, Faraday Society, American Chemical Society and Comptionion Institute. In 1958, Doctor Urbański was appointed the Manager of the Zakład Syntezy Organicznej PAN (Organic Synthesis Department, Polish Academy of Sciences). He has 250 publications to his credit, among them the monography Teoria Nitrowania (The Theory of Nitration) and 3 vol of Chemia i Technologia Materiałów Wybuchowych (Chemistry and Technology of Explosives), published in 1955. English

Card 4/3

P/002/69/000/004/002/063
A221/A126

AUTHORS: Gacki, Juliusz, and Serafinowa, Barbara
Iadeusz Urbański

TITLE: Iadeusz Urbański

PERIODICAL: Nauka Polska, no. 4, 1961 - 174

TEXT: A short biography of Professor Doctor Iadeusz Urbański is given. He was born in 1901 in Yekaterinodar (Russia). His studies commenced in 1919 at the Wydział Chemiczny Politechniki (Polytechnical Institute, Chemical Department) at Novocherkassk and were completed at the Polytechnical Institute in Warsaw in 1924. Still before completion of studies he was employed at the Institute in Warsaw in 1924. Urbański was published in 1926. He was sent for two years (1926 - 1928) to France where he worked in various chemical plants and upon his return he joined the Instytut Techniczny Uzbrojenia (Armament Technical Institute) in Warsaw. In 1929, he started lecturing chemical technology at the Polytechnical Institute in Warsaw. In 1932 Urbański became Doctor of Technical Sciences, in 1933 he passed university professorship examination (nabilitation) and in 1936 he was appointed extraordinary professor at the Polytechnic in Warsaw. At this time he studied nitric acid organic

lara 1/3

Distr: 4E3d

✓ Improved trotyl preparation. Tadeusz Urbadski, Juliusz
Hackel, Stanislaw Mortka, Kazimiera Szyc-Lewanska,
Tadeusz Siebodziński, and Wiesław Witk (Katedra Technol.
Organicznej II Politech., Warsaw). *Przemysł Chem.*
38, 581-4(1959).—Nitration of 1 mole toluene with a mixt.
of 1.3 moles HNO₃ (d. 1.52) and 1.75 moles Ac₂O (10°, 2
hrs.) gave the mononitration product (I), not (or only
slightly) contaminated with the meta isomer. It was further
nitrated to di- and trinitrotoluene by usual methods. The
purity of the raw trinitrotoluene so obtained was claimed to
be sufficiently high to be used as an explosive without addnl.
purification. Maria Michalska

✓
✓ P.W(PW/JW)
✓ JAS(NB)

Distr: 4E2c(j)

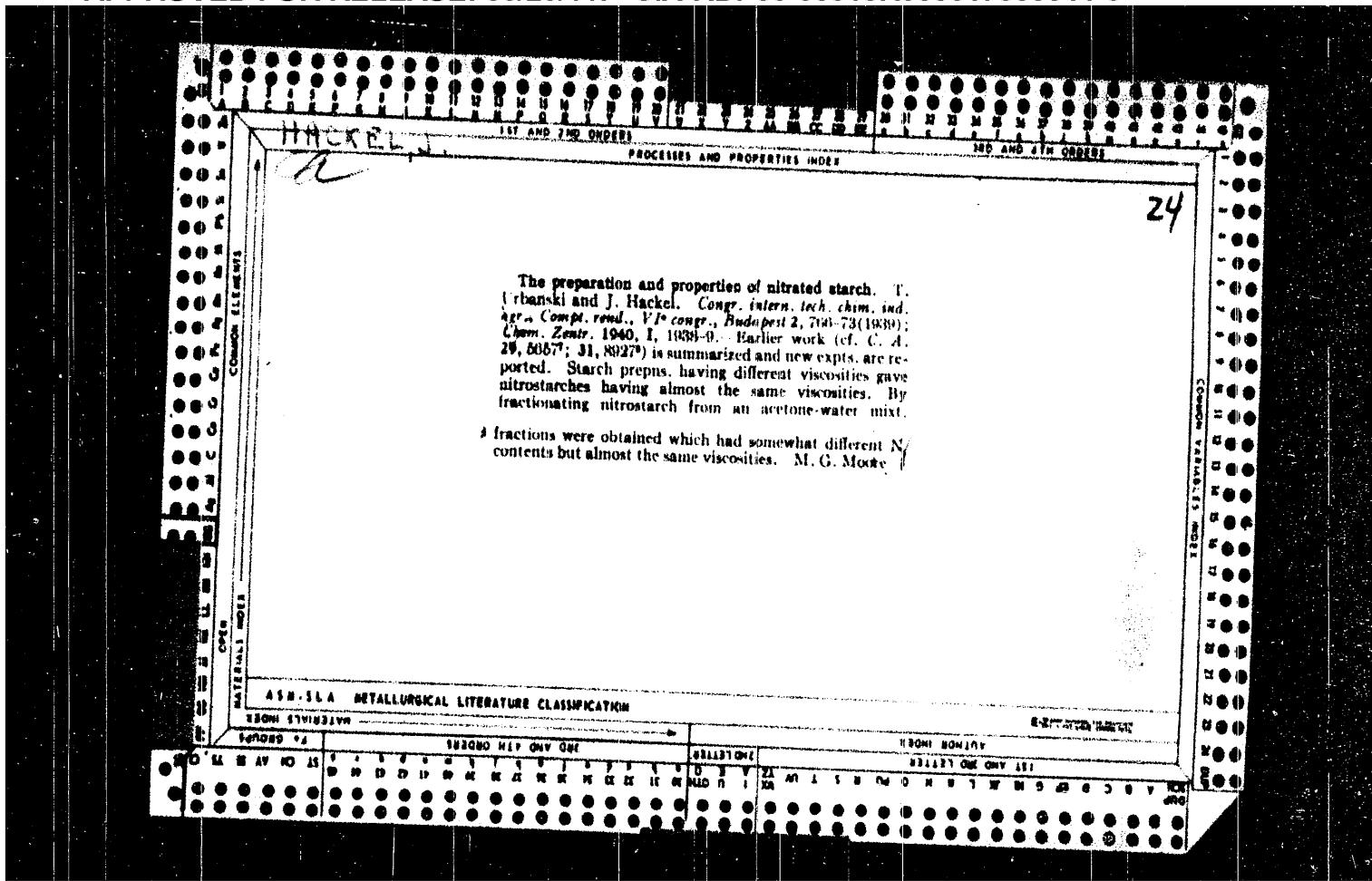
5
2 May
1

✓ Theory of nitration. T. Urbanski and J. Hackel (Inst. Technol., Warsaw). *Tetrahedron* 7, 300 (1960); cf. C.A. 53, 1865. — O-Nitration of starch was examd. by nitration with mixts. of HNO_3 , H_2SO_4 , and H_2O , and curves relating const. N content in the product to mixt. compn. were plotted on a triangular diagram. Starch, like cellulose, can be nitrated by relatively dil. nitrating mixts. which do not contain NO_2^+ ions, indicating that undissoced $HONO_2$ and NO_2^- , HNO_2 or NO_2^- are also O-nitrating agents. The const. N curves have 2 branches of which the main branches follow the trend of the Sapožnikov curves [cf. Z. physik. Chem. 53, 225(1906)] established for the nitration of cellulose and for the partial vapor pressure of HNO_2 . The shorter branches corresponding to mixts. rich in HNO_3 do not follow the trend. The deviation is probably due to the solv. of starch in these mixts. The higher the HNO_3 - H_2SO_4 ratio in the nitrating mixts. in the region from 90:10 to 100:0, the greater is the solvent power for starch and at any given HNO_3 - H_2SO_4 ratio the higher the N content of the product. Comparison of the action of mixts. rich in HNO_3 on cellulose and starch confirms the importance in nitration of the diffusion of the acids into the cellulose fibers.

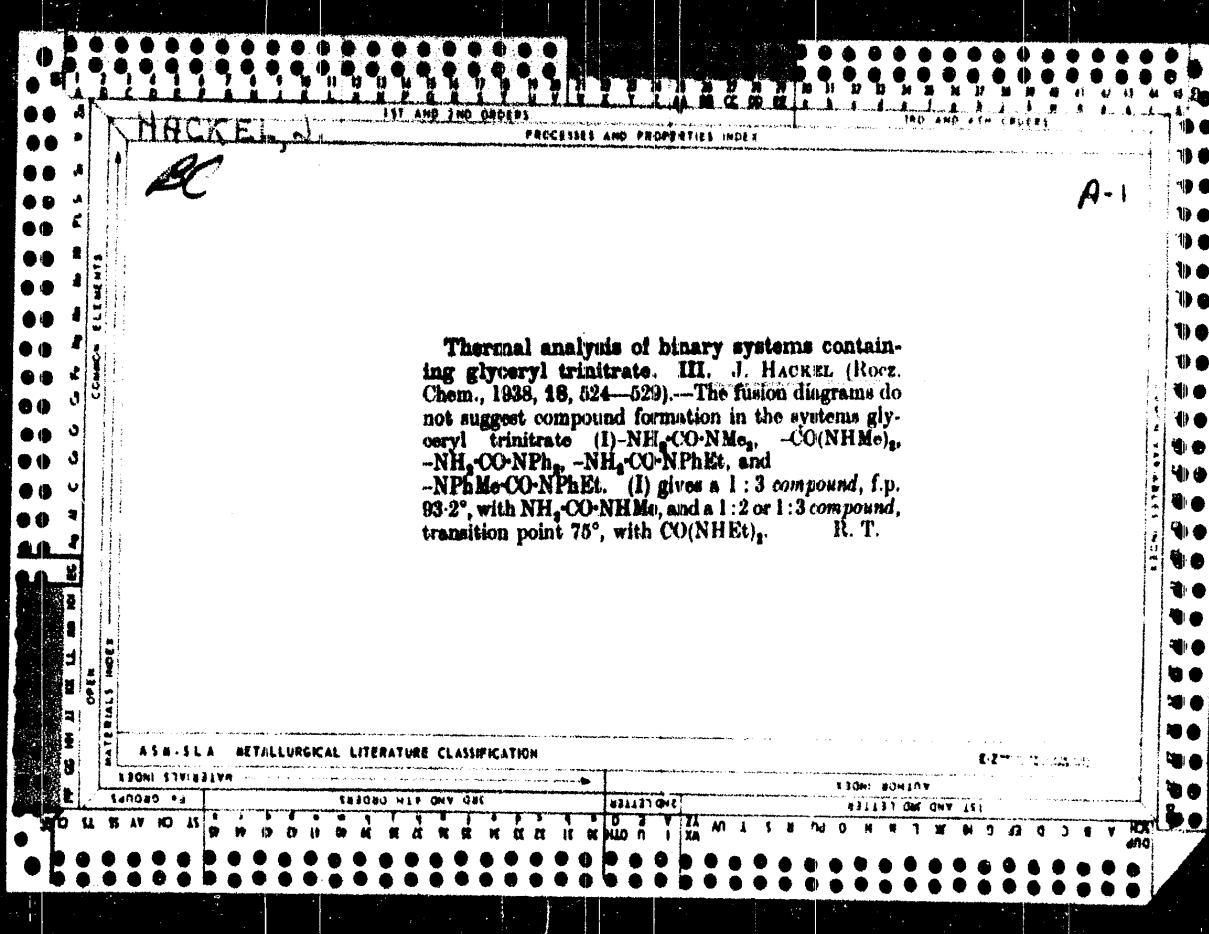
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C. R. Addinall

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HACKEL

80

Thermal analysis of binary systems containing glyceryl trinitrate. I, II. J. HACKEL (Rec. Chem., 1936, 16, 323-333, 366-370).—I. PhNO.

n-C₆H₅(NO₂)₃, *n*-C₆H₅Me(NO₂)₂, *o*-, *m*-, and *p*-C₆H₅Me₂NO₂, *n*-C₆H₅Me₂(NO₂)₂, tetryl, and hexogen yield simple autoxidizes with the two modifications of glyceryl trinitrate (I).

11. Et centralite forms an unstable 1 : 1 compound with the two modifications of (I), whilst binary systems of (I) with mannitol hexanitrate, erythritol tetrinitrate, pentaerythritol tetranitrate, NHPh_2 , urethane, phenylurethane, phthalide, and Me centralite consist of simple eutectics. The systems (I)-camphor and -glycol dinitrate were only partly studied, owing to the high η and low velocity of crystallisation of the mixtures.

R.T.

ASH-SLA METALLURGICAL LITERATURE CLASSIFICATION

HACKEL, J.

BC

PROCESSES AND PROPERTIES INDEX

a-3

Properties of the two modifications of glyceryl trinitrate. J. HACKEL (Recs. Chem., 1936, 16, 213-222).—The formation of the stable modification of glyceryl trinitrate, m.p. 13°, is favoured by presence of $C_6H_5(NO_2)_2$ or kieselguhr, while cellulose nitrate and Et and Ph carbamate favour crystallisation of the unstable form, m.p. 1-9°; many other substances are without effect. The stable form is more sensitive to shock than the unstable one, but the explosive power and velocity of detonation are the same for both forms.

R. T.

ASA-1A METALLURGICAL LITERATURE CLASSIFICATION

SEARCHED	SERIALIZED	INDEXED	FILED	JOURNAL		BOOK	
				ONE	ONE	ONE	ONE
Y	S	N	A	Y	Y	Y	Y
D	S	S	A	Y	Y	Y	Y
Y	S	S	A	Y	Y	Y	Y

HACKEL, J.

1ST AND 2ND COLUMNS

PROCESSING AND PROPERTIES INDEX

3RD AND 4TH COLUMNS

R.

B-II-11

Explosive properties of starch nitrates. J. HACKEL and T. Umarakki (Przemysl Chem., 1964, 18, 396-401).—A study of the explosive properties (I) of starch nitrates (II), as expressed by the velocity of detonation, the Pb block test, brisance, and the sensitivity to shock, indicates that (I) augment with the N content, and that (II) containing < 9% N have no practical val. as explosives, whilst the (I) of (II) containing > 9% N are comparable with those of $C_6H_5Mo(NO_3)_3$ and $HO-C_6H_4(NO_2)_2$. R.T.

ASR-SLA METALLURGICAL LITERATURE CLASSIFICATION

EDITION STATEMENT

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HACKEL, J.

CR

84

Nitration products of starch. II. Preparation of starch nitrates from starch from different sources. Julius HACKEL AND EUGEN URANSKI. *Rosznki Chemiczne*, 13, 221-36,225 in French *BIOCHIMIE*, 1, 27, 2502. No marked differences were found in the N content of nitrates prepared from corn, rice, tapioca or potato starch or from soya starch, in contradiction of the findings of Berland and Butler (c. 1936).
J. H. CUNNINGHAM

HACKEL, J.

PROCESSES AND PROPERTIES

24

Nitration products of starch. I. Preparation of starch nitrates from potato starch.
 JULIUS HACKEL AND TADEUŠ URBAŃSKI. *Roczniki Chem.* 12, 276-97 (in French 296-77) (1932).--In nitrating potato starch with HNO_3 the following conclusions are drawn: An increase of the acid concn. causes an increase of the N content and of the viscosity of the nitrates. Stabilizing boiling of the nitrates has a detrimental effect inducing denitration and an increase of the solv. in EtOH. The N content increases with increasing amt. of HNO_3 used. A rise of the temp. from 0° causes lowering of the N content, of the yield and of the viscosity of the nitrates, accompanied by an increase of the EtOH solv. The changes are probably due to secondary oxidation reactions induced by the rise in temp. With increasing time of esterification the N content of the product rises rapidly at first, and then the increase becomes steadily smaller. The increase of the nitration period favors also the above secondary reactions, causing a drop of the yield, of the N content and of the viscosity of the product. Starch nitrates ppnd. by H_2O show a better chem. stability than those ppnd. by H_2SO_4 . In nitrating starch with HNO_3 - H_2SO_4 - H_2O mixts. the best yield is obtained with mixts. containing equimolar amts. of H_2SO_4 and H_2O . Such mixts. showing a max. partial pressure of HNO_3 vapors exhibit a max. nitrifying power, and behave here in the same manner as in the nitration of cellulose. Mixts. poor in H_2SO_4 differ in their effect on starch from that on cellulose insofar as nitrated starch is probably sol. in them. J. WIRTELAK

ASG-11A METALLURGICAL LITERATURE CLASSIFICATION

HAGIULESCU, T.

Calculatinf the Volume of Exploratory Drilling on the Basis of the
Reserve Increase of "Oil Well" Departments. Petrol Si Gaze (Petroleum and
Gases), #3:125: Mar 65

HACISKI, Eugeniusz, mgr inż.

Prototype of the vessel B-516 n.s. "Domeyko" and its first
mercantile voyage. Bud. okretowe Warszawa 8 no. 7:248-250
Jl. '63.

1. Centralne Biuro Konstrukcji Okrętowych nr 1, Gdańsk.

HACISKI, Eugeniusz, mgr inz.

General cargo motor vessel, I. Domeyko. Bud. okretowe Warszawa 8
no.1:8-10 Ja '63.

1. Centralne Biuro Konstrukcji Okretowych Nr 1, Gdańsk.

CZECHOSLOVAKIA

HACIK, T; Endocrinological Institute, Slovak Academy of Sciences,
(Endokrinologicky Ustav SAV), Bratislava.

"The Effect of a Single Testosterone Administration at an Early Postnatal Period on the Function of Adrenal Glands in Rats,"
Prague, Ceskoslovenska Fisiologie, Vol 15, No 2, Feb 66, pp 161-165.

Abstract: Sexual hormones act upon sex organs through the sex center located in the hypothalamus in the brain. 1 mg of testosterone propionate was administered to rats aged 2 to 4 days; the animals were studied when 120 days old. In females the weight of adrenal glands was slightly increased, production of corticosterone by adrenal glands was increased substantially; no differences were noted in males. 5 Western references.
Submitted at "16 Days of Physiology" at Kosice, 28 Sep 65.

STARHA, L.; MACIK, T.

CIA

Endocrinological Research Institute in Prague (Vysicarny ustav endokrinologicky), director: docent K. Silink, MD; Endocrinological Institute of SAV in Bratislava (Endokrinologicky Ustav SAV); director: J. Podoba, MD, C Sc.

Bratislava, Bratislavsko Lekarske Listy, No 6, 1963, pp 330-334
"A Routine Test-Tube Method for the Determination of Urinary 17-Ketosteroids"

(2)

HACIK, T.

Pathogenesis of congenital adrenal hyperplasia. Bratisl. lek. listy
42 no.8:507-511 '62.

1. Z Endokrinologickeho ustavu Slovenskej akademie vied v Bratislave,
riaditeľ MUDr. J. Podoba, C. Sc.

(ADRENAL CORTEX dis)

HACIK, T.

Determination of pregnantriol in urine. Bratisl. Lek. Listy 42 no. 3:
135-140 '62.

1. Z Endokrinologickeho ustavu Slovenskej akademie vied v Bratislave,
riaditeľ MUDr. J. Podoba, C. Sc.
(PROGESTATIONAL HORMONES)

IZAKOVIC, V.; HACIK, T.

Congenital adrenogenital syndrome in 2 sisters born from consanguineous parents. Bratislavské lek. listy 44 no. 2:113-115 31. II. 1964.

1. Katedra vnutorného lekarstva Slovenskeho učtu pre doskolenie lekarov v Trenčíne (veduci doc. MUDr. D. Dieska) a Endokrinologicky učtu Slovenskej akademie vied v Bratislave (riaditeľ MUDr. J. Poldoba, C. Sc.).

HACK, T.

1914
050: 2000-3

2/2

IUPASCU, Gh., prof.; HACIG, Alice, biolog; TINTAREANU, Justina, dr.;
SOLOMON, Paula, biolog; SMOLINSKI, M., dr.

Diagnostic methods in trichinellosis. Value of immunobiological
diagnosis in the study of apparent foci in the Rumanian People's
Republic. Microbiologia (Bucur.) 10 no.3:233-244 My-Je '65.

LUPASCO, Gh.; SORESCO, Angela; PANAITESCO, D.; RACIG, Alice; SIMION, Paula

Research on the role of underground irrigation in the prevention
of pollution of the soil of the irrigated crops with helminth
eggs. Arch. Roum. path. exp. microbiol. 23 no.4:889-898 D 164.

l. Travail de l'Institut "Dr. I. Cantacuzino", Section de Helmintho-
logie. Submitted May 6, 1964.

DUPASCO, Gh.; HAGIG, Alice; SOLOMON, Paula; TINTAREANU, Justina

Research on the persistence of certain immunological reactions
in *Trichinella spiralis* infections. Arch. Roum. patol. exp. micro-
biol., 23 no.4:883-888 D '64.

1. Travail de l'Institut "Dr. I. Cantacuzino", Section d'Helmintho-
logie. Submitted May 18, 1964.

IOPASCO, Gh.; SOLOMON, Paula; HACIG, Alice

Contribution to the study of experimental infection with
Trichinella spiralis. Arch. Roum. path. exp. microbiol. 23
no.4:869-876 D '64.

l. Travail de l'Institut "Dr. I. Cantacuzino", Service d'
Helminthologie. Submitted January 11, 1964.

DUPASCU, Gh., prof.; SOARESCU, Angela, dr.; MATEIUSU, Io., dr.; HACIG, Alice,
biolog; SOLARIK, ... , biolog.

Investigations of the role of underground irrigation in the prevention of the pollution, with geohelminth eggs, of the soil
of the irrigated cultivated land. M. - biologia (D-ur.) 9 no. 28
1960 My. 16

1. Lucrare efectuata in laboratorul helmintologic, din Institutul de
microbiologie, parazitologie si epidemiologie "Dr. Gheorghe Cacuzino",
Bucuresti.

LUPASCO, Gh.; SOLOMON, Paula; HACIG, Alice; CIPLEA, Al. Gh.; CIUREA, C.; IANCO, Larissa.

Research on the role of the reticulo-endothelial system in immunity in experimental trichinosis. Arch. Roum. path. exp. microbiol. 20 no.3:337-356 S '61.

1. Travail de l'Institut "Dr I. Cantacuzino" Laboratoires d'Helminthologie, Histopathologie et Chimie parasitaire.
(RETICULOENDOTHELIAL SYSTEM physiology)
(TRICHINOSIS experimental) (IMMUNITY)

HACIG, Alice

SURNAME (in caps); Given Names

Country: Rumania

Academic Degrees:

Affiliation:

Source: Bucharest, Microbiologie, Parazitologie, Epidemiologie, Vol VI,
No 5, Sep-Oct 1961, pp 439-454.

Data: "The Spread of Geohelminthiasis Through the Intermediary of
Irrigated Plantations."

Authors:

IUPASCU, G., -Prof.- Department of Parazitology of F.P.S.M.F.
] (Catedra de Parazitologie F.P.S.M.F.).

SORESCU, Angela, -Dr.- Department of Parazitology of F.P.S. M.F.

PANAITESCU, D., -Dr.-, Department of Parazitology of F.P.S.M.F.

ANGELESCU, C., -Dr.-, Central "Sanepid" of the Capital (Sanepidul
Central al Capitalei).

HACIG, Alice, Helminthology Section of the "Dr. I. Cantacuzino"
Institute (Sectia de Helmintoologie a Institutului "Dr. I. Can-
tacuzino").

SOLOMON, Paula, Helminthology Section of the "Dr. I. Cantacuzino"
Institute.

MihAIU, Gh., prof.; RMANU, Atiee, Lic.; MihAIU, Valeriu, Lic.

Efficiency of some methods of immunodiagnosis of trichinellosis.
Trichinella spiralis infection. Microbiology (Romania) no. 38(3)-SM, Hydria '64

1. lucrare efectuata in Secția de helminthologie și malacologie
din microbiologie, parazitologie și epidemiologie din cadrul Institutului
București. Membru corespondent al Academiei Republicii Populare
Române (for Iupazar).

NITULESCU, V.; POZSGI, N.; SORESCU, A.; PANAITESCU, D.; HACIG, A.;
SOLOMON, P.

Problems connected with helminthological research in mining
regions. Stud. cercet. inframicrobiol., Bucur. 7 no.1-2:
193-202 Jan-June 56.

(HELMINTH INFECTIONS, epidemiol.
in mining regions of Rumania)
(MINING

helminth infect. in miners of Rumania, epidemiol.)

SORESCU, A.; PANAITESCU, D.; SOLOMON, P.; HACIG, A.; BELLU, C.

Helminthological studies in the Ostrov quarter of Bucharest.
Stud. cercet. inframicrobiol., Bucur. 6 no.3-4:605-619 July-Dec. 1955.

(HELMINTH INFECTIONS, epidemiol.

in Rumania, distribution in Ostrov quarter of Bucharest)

HACHOVA, E.

Country : CZECHOSLOVAKI.

Category: Organic Chemistry. Natural Compounds and Their
Synthetic Analogues

G

Abs Jour: RZhKhim., N 17, 1959, №. 61026

Author : Protiva, M.; Jilek, J.O.; Hachova, Ye.; Novak, L.*

Inst : -

Title : Synthetic Models of Alkaloids Lowering Blood
Pressure. I. 1-alkyl-1, 2, 3, 4-Tetrahydroner-
garins. II. Simple Models of "Reserpine"
With Cyclohexane Rings E.

Orig Pub: Collect. Czechosl. Chem. Comuns, 1959, 24,
No 1, 74-82, 83-92

Abstract: See Ref. Zhur-Khimiya, 1958, № 18, 61101,
No 22, 741-57

*Vejdelek, Z.-J.; Adlerova, E. II. Protiva, M.;
Jilek, J.O.; Hach, V.; Adlerova, E.; Mychaljyszyn, V.

Card : 1/1

HACHOVA, E.

Synthetische Arzneimittel und Naturstoffe als Arzneimittel Fortschritte in den Jahren 1957 and 1958

Von V. HACK, M. BOROVICKA und E. HACHOVA

Herrn Dr. V. Treka sind wir fuer wertvolle Ratschlaege und Herrn Ing. V. Mychajlyszyn (beide Forschungsinstitut fuer Pharmazie und Biochemie, Prag) fuer seine Mithilfe bei der Uebersetzung einiger fremdsprachiger Arbeiten zu Dank verpflichtet.

Eingegangen am 10. Juli 1959

Dr. V. Hach, Praha XV (CSR), Branicka 121

SO: PHARMAZIE, Dec 59, p. 662 and 678, Uncl.

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"^o, J. Chem. Soc., 1946,

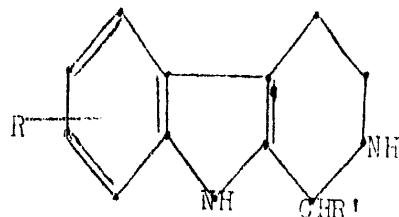
CZECHOSLOVAKIA / Organic Chemistry, Natural Substances and Their Synthetic Analogues. G
Abs Jour: Ref Zhur-Khimika, No 18, 1958, 61101.
Abstract: 621); MS - melting point 210 to 211° (from alco-

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CZECHOSLOVAKIA / Organic Chemistry. Natural Substances G
and Their Synthetic Analogues.

Abs Jour: Ref Zhur-Khimiya, No 18, 1958, 61101.

Abstract:



yield 79%. 7-methoxytriptamide of PNA (XIII),
melting point 101 to 102° (from aqueous CH₃OH),

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60

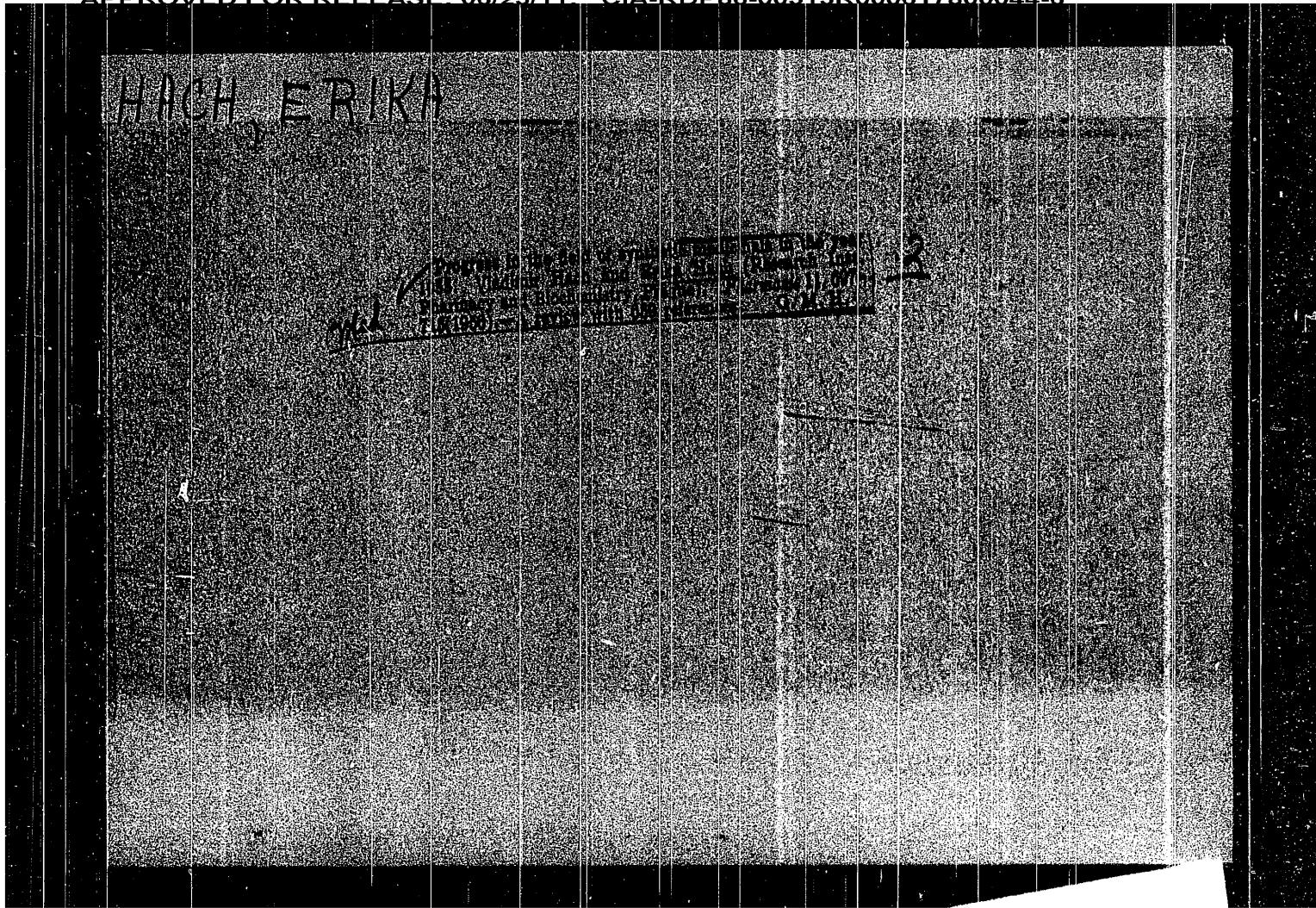
CZECHOSLOVAKIA / Organic Chemistry. Natural Substances G
and Their Synthetic Analogues.

Abs Jour: Ref Zhur-Khimia, No 18, 1958, 61101.

Abstract: corresponding acid, and c/ of the corresponding I and hydrochloride of the corresponding acid in C₆H₆ in the presence of aqueous NaOH at about 20°. 5-methoxytriptamine of PNA (VI), melting point 117° (from CH₃OH), was prepared of IV according to the method a, yielded 80%. Triptamide of 4-methoxy-PNA (VII), melting point 155 to 156° (CH₃ OH), was prepared of I and methoxy-PNA by the method b, yield 46%. Triptamide of α -phenylisobutyric acid (VIII), melting point 137 to 138° (from benzene), was prepared of I and IV by the method c, yield 91%. Triptamide of PNA (IX), melt-

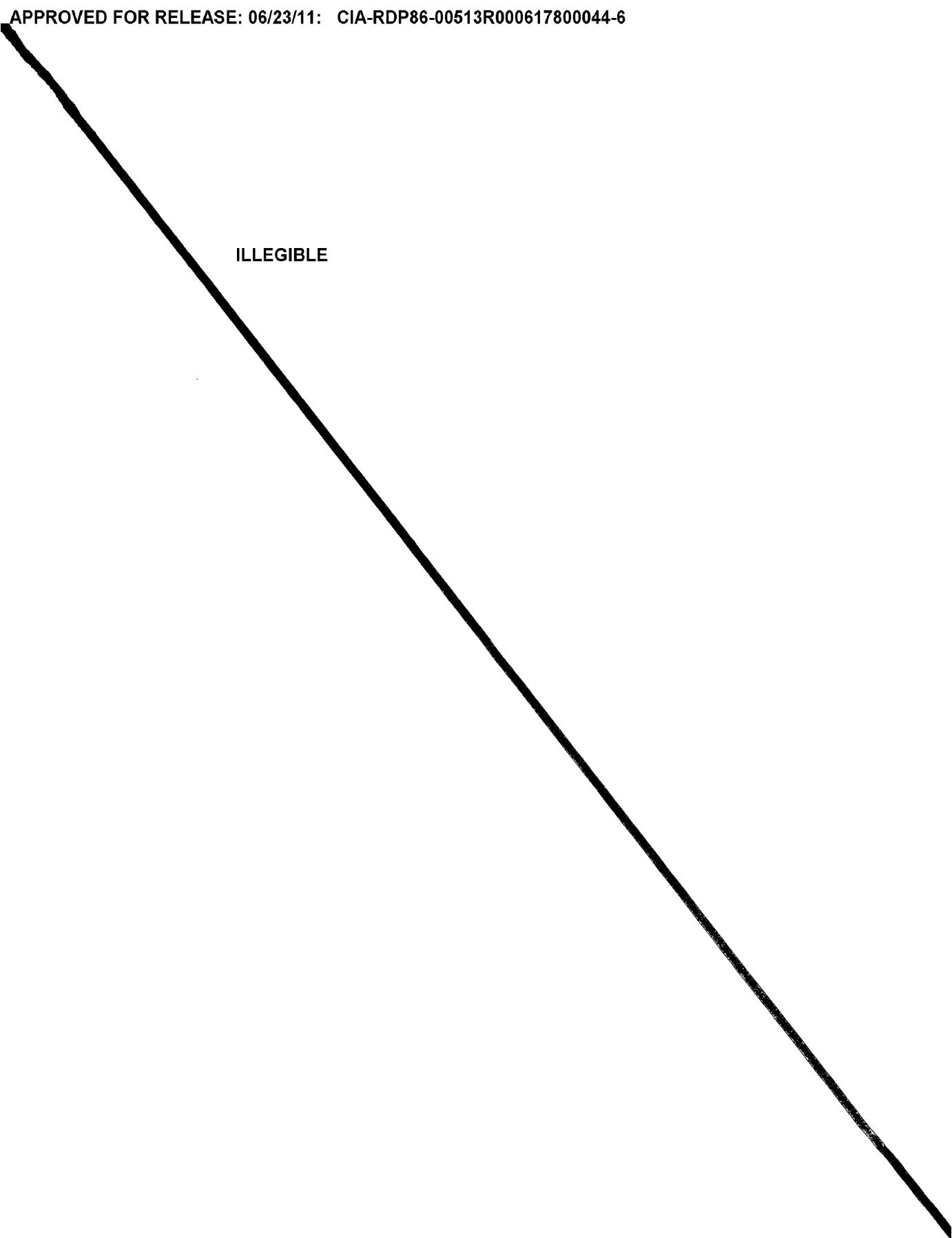
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ILLEGIBLE



HACHLER, E.

The number of water birds on the Lednice ponds in terms of the international census. p. 59. (Ochrana Přírody, Vol. 12, No. 2, Mar 1957, Praha, Czechoslovakia)

SO: Monthly List of East European Accessions (FEAL) LC, Vol. 6, No. 8, Aug 1957. Uncl.